

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059585 A1

- (51) International Patent Classification⁷: **G07D 7/00**, G06M 9/00
- (21) International Application Number: PCT/NL2003/000943
- (22) International Filing Date: 24 December 2003 (24.12.2003)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data: 1022257 24 December 2002 (24.12.2002) NL
- (71) Applicant and
(72) Inventor: **DONDERS, Paulina, Theodora, Gerarda** [NL/NL]; Burg. v. Liebergenstraat 16, NL-5913 AT Venlo (NL).
- (74) Agent: **DOHMEN, Johannes, Maria, Gerardus**; Algemeen Octrooi-en Merkenbureau, P.O. Box 645, NL-5600 AP Eindhoven (NL).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF ANALYSING A STACK OF FLAT OBJECTS

(57) **Abstract:** The present invention relates to a method of analysing a stack of flat objects, which method comprises the steps of providing a stack of flat objects, which stack comprises at least one surface defined by the edges of flat objects, illuminating the surface of said stack, providing a two-dimensional image of the stack by making use of an optical sensor, and providing an output signal that represents the result of the analysis, wherein the provision of the two-dimensional image is carried out in such a manner that the image is enlarged in the y-direction and reduced in the x-direction, which y-direction is defined as the height of stack of flat objects and which x-direction is defined as the width of the stack of flat objects.



WO 2004/059585 A1